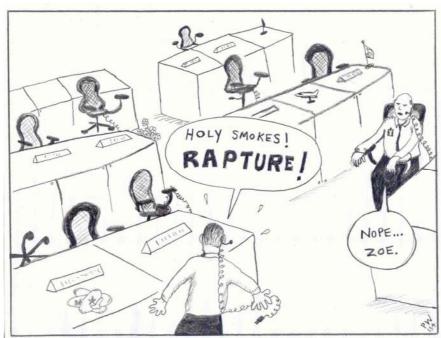
STS-134/ULF6

FD 07 Execute Package



MSG	Page(s)	Title
061	1 - 11	FD07 Flight Plan Revision
062	12 - 13	FD07 Mission Summary
063A	14 - 15	FD07 Transfer Message
064	16 - 18	ULF6 Stowage Choreography
065	19	STS-134/ULF6 FD7 EVA deltas
066D	20	ATV2 Cargo List
067A	21 - 26	JLP CWC-I Relocation
068	27	FD06 MMT Summary
069	28	FD07 Crew Choice Downlink Opportunities



Approved by FAO: M. Scheib Approved by OpsPlan: J. Kitchen Michael Scheib

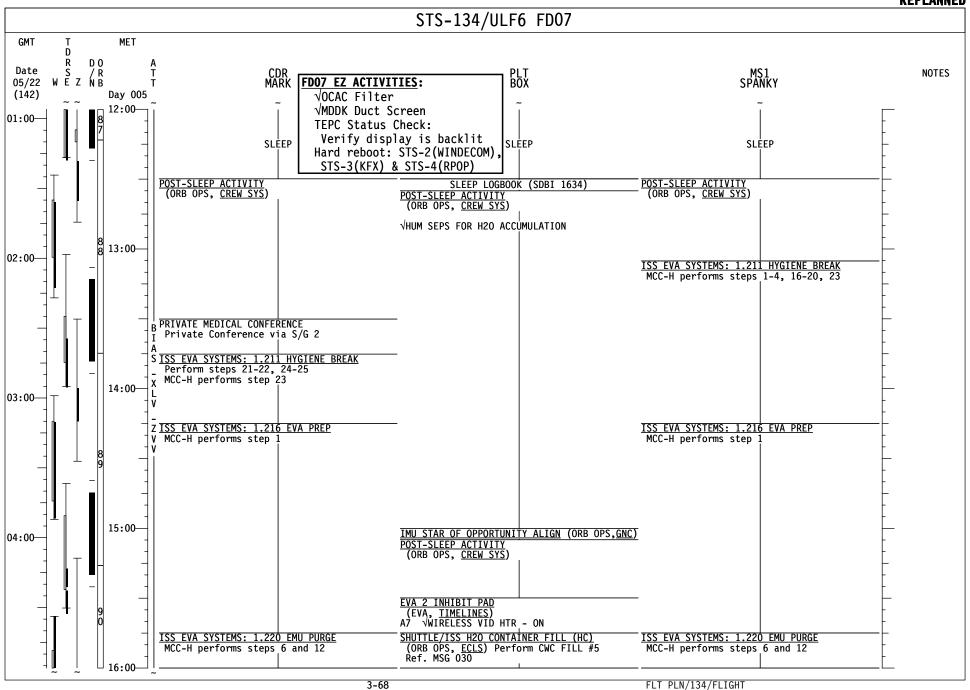
Last Updated: May 22 2011 12:23 AM GMT JEDI (Joint Execute package Development and Integration), v3.0

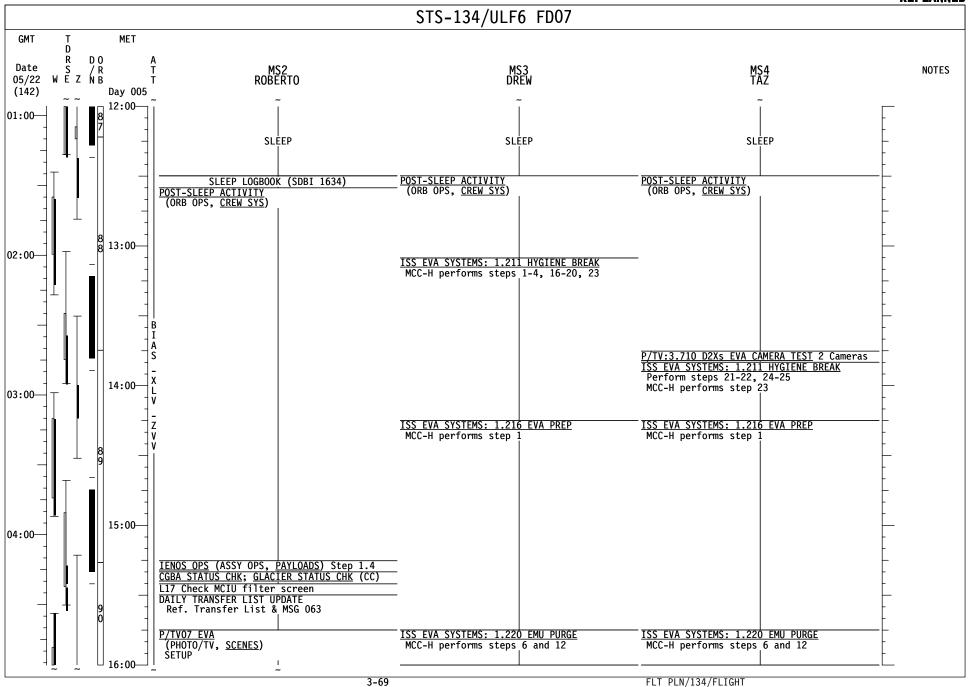
MSG 061 (27-0653) - FD07 FLIGHT PLAN REVISION Page 1 of 11

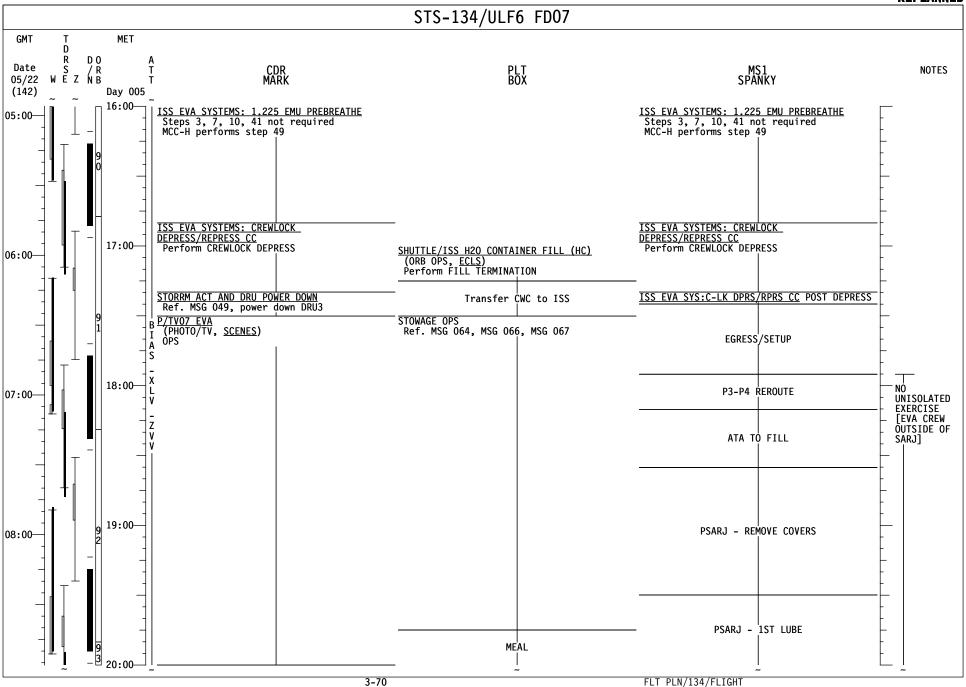
1	MSG I	NDEX	
2	MSG I	<u> </u>	<u>TITLE</u>
3	061		FD07 Flight Plan Revision
4	062		FD07 Mission Summary
5	063		FD07 Transfer Message
6	064		ULF6 Stowage Choreography
7	065		STS-134/ULF6 FD7 EVA Deltas
8	066		ATV2 Cargo List
9	067		JLP CWC-I Relocation
10	068		FD06 MMT Summary
11	069		FD07 Crew Choice Downlink Opportunities
12	000		1 Bot Grow Gridio Bownink Opportunition
13			
14			
15	1	Post-	Sleep Cryo Config
16	٠.		oday's post-sleep cryo config, O2 tanks 2, 3, & 4, and H2 tanks 2 & 5 will
		be ac	···
17 18		be ac	Suve.
19		R1	O2,H2 MANF VLV TK2 (two) - OP (tb-OP)
		17.1	O2 TK3 HTRS A,B (two) - AUTO
20			02 TK3 TTK3 A,B (two) - A010
21		A11	CRYO TK4 HTRS O2 A,B (two) - AUTO
22 23		AII	CK 10 1K4 111K3 02 A,B (two) - A010
24		A15	CRYO TK5 HTR O2 A - OFF
		713	CRTO TROTTIN OZ A - OTT
25	2	Dro_9	Sleep Cryo Config
26	۷.		C for deltas prior to configuring for pre-sleep.
27 28		VIVIC	of delias prior to cornigating for pre-sleep.
29		For to	onight's pre-sleep cryo config, manifold 2 will be closed with O2 and
30			nks 2 & 5 active.
31		112 (TING 2 & 3 delive.
32		A15	CRYO TK5 HTR O2 A - AUTO
33		Α.Ο	onto monimoza aoto
34		A11	CRYO TK4 HTRS O2 A,B (two) - OFF
35		~	on on the first of A,D (tho)
36		R1	O2 TK3 HTRS A,B (two) - OFF
37			O2,H2 MANF VLV TK2 (two) - CL (tb-CL)
38			
39	3	EVA	Pren
40	0.		Before Drew and Spanky get too far into EVA Prep, please see MSG 27-0652
41			-065) STS-134/ULF6 FD7 EVA DELTAS which contains a few final pen & inks to
42			EVA2 Procedures. Let us know if you or they have any questions. We are
43			ed for today's EVA!
43		CAGIL	od for today o EV/1:
	1	Мдее	sage 069 contains Crew Choice Downlink opportunities during Post Sleep and
45	↔.		leep on FD7
46 47		1 160	icop on i Ui
47	5	DEDI	LACE PAGES 2-22 AND 2-24, AND 3-68 THROUGH 3-75.
48	٥.	NEPI	LAGE 1 AGES 2-22 AND 2-24, AND 3-00 THROUGH 3-73.
49			
50			

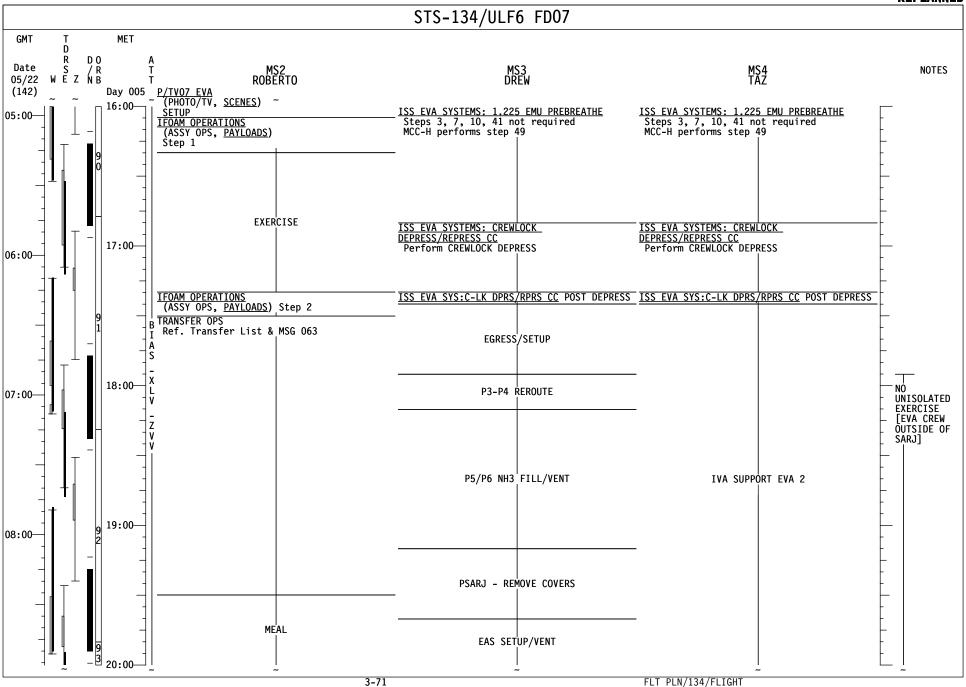
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	PLT BOX	SLEEP	L O G	PO	ST SLEE	P.		POST N A	C I W N C I # T			W E C R # M	C W C X F E R	STOWA	GE OPS		MEAL	SSRMS SPDM	LUBE	C C R STOWA N	GE OPS
S T S	MS1 SPANKY	SLEEP	POST SLEEP		IE BREA P/B	K/ CAI		EVA PREP	E P M U U R G E		J P/B	C_LK DPRS	P - DE(P S	P R 3 E ATA GRESS P O TO SETUP 4 U FILL E	PSARJ REMOVE COVERS	PSARJ 1ST LU		S1 RAD GRPL R BAR STOW	PSARJ 2ND LUBE	PSARJ INSTALL COVERS	CIPRLN-PNGRRURPS
1 3 4	MS2 ROBERTO	SLEEP	L D G	F	POST SL	EEP		I MM X L EDC F F N DI E F O KU R A @ #* 1	P E / V S	IS F/ OU A M	EXEF	RCISE	I F O A M +	MDDK X	(FER	MEA			OWAGE OF	PS .	
	MS3 DREW	SLEEP	POST SLEEP		IE BREA P/B 10	CAI	MPOUT E	EVA PREP	E P M U U R G E		J P/B	C_LK DPRS	P - DE(P S	GRESS P 0 SETUP 4 U T E	P6 NH3 PSA PEMC PSA PSA PSA PSA PSA PSA PSA PSA PSA PSA	RJ EAS OVESETUP ERS VENT	NH3 VENT TOOL CLNUP R	S A V SPDM O T E CLA SPDM T T CVR LEE LU	1 PSARJ JBE 2ND LUBE	PSARJ INSTALL COVERS	CIPR LN-P NGRR URPS
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N	DAY/NIGHT ORBIT	87	88			89	9		<u>.</u>	90				91	NO UNISOL	EXER [A]	93		ISOL EXE		95
ISS	DRS E Z		-							 		 	R	BIAS -XLV -ZVV	+				+		F
	NOTES	[B] NO	VA CRE	ATED EX W OUTSI ATED EX R SPDM	DE OF SERCISE	SARJ] BE]		*FII @STATU #STAT 2-2	IS CI TUS	HFCK	(+\$1	TOW		FLT PLN/	134/FLIG				

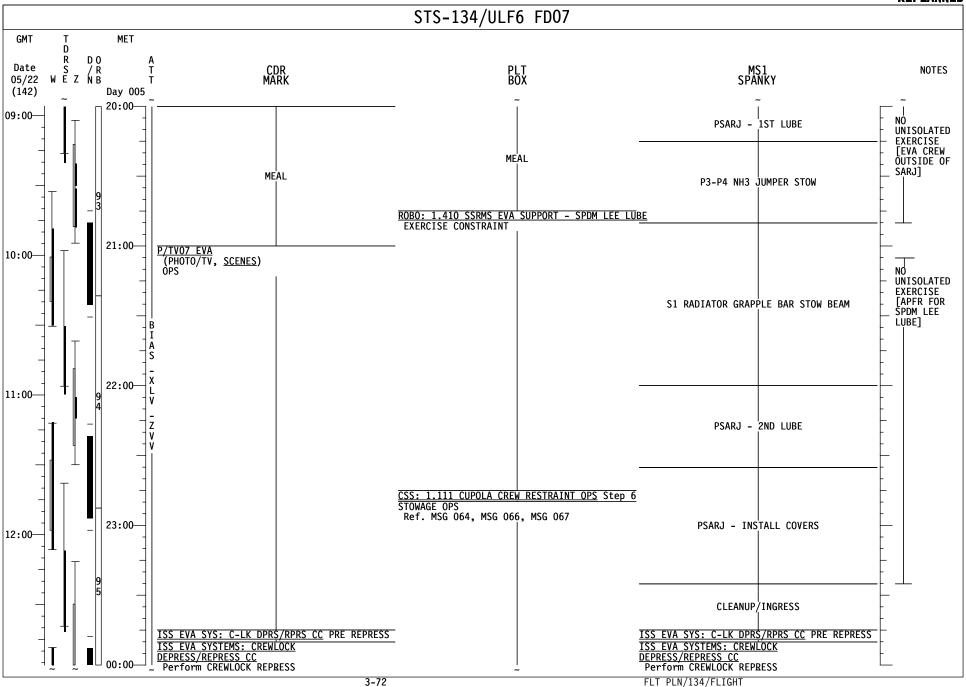
GMT	05/22/11 (142)		REPLANNED 17 18 19 20 21 22 23 05/23				
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	FD07	PTS	——————————————————————————————————————				
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S T S	MS1 SPANKY	R P POST EVA R L S G E E T U PRE SLEEP P V A	SLEEP				
1 3 4	MS2 ROBERTO	S O X P X B M O S R E F R D PRE SLEEP R R E K G F # F # F	SLEEP				
	MS3 DREW	R P S O A R L S G E E T U PRE SLEEP P V A	SLEEP				
	MS4 TAZ	EXERCISE PRE SLEEP P V A	SLEEP				
NO	DAY/NIGHT						
	ORBIT	95 96 97	98 99 100 101 102 103				
ISS	TDRS E Z TDRS AVAIL ORB ATT		BIAS -XLV -ZVV				
	NOTES	#STATUS CHECK ^ACCUM REPRESS	DINO -VEA -7AA				
		2-24	FLT PLN/134/FLIGHT				

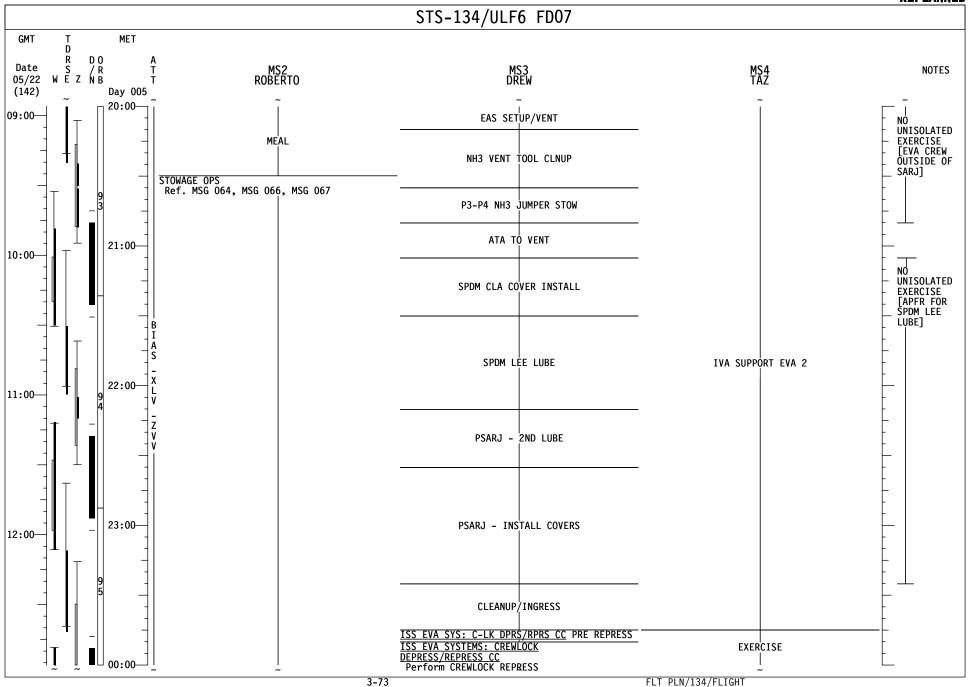


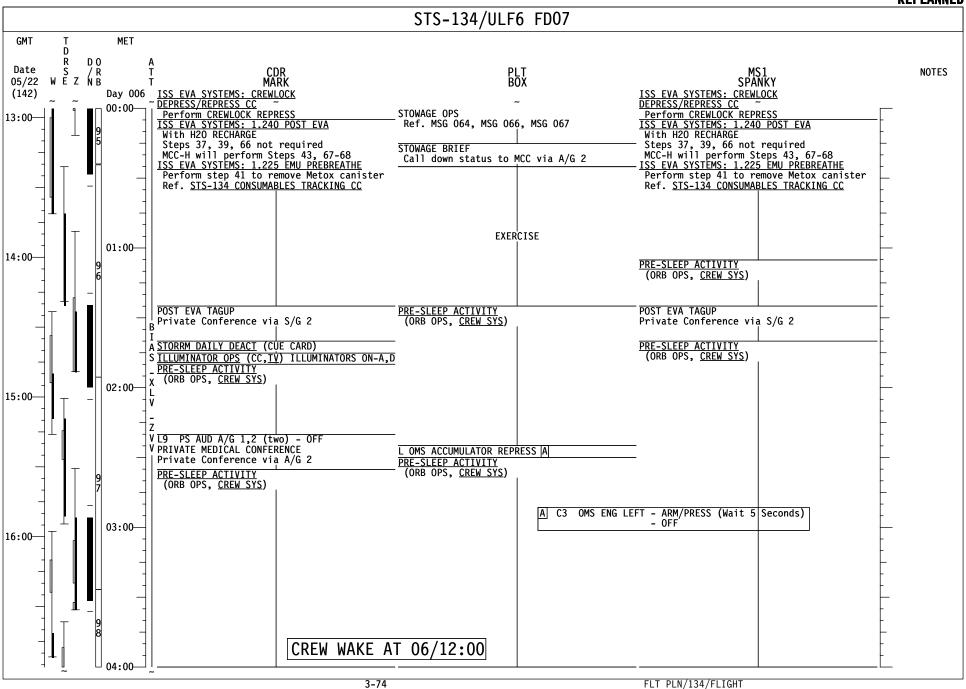


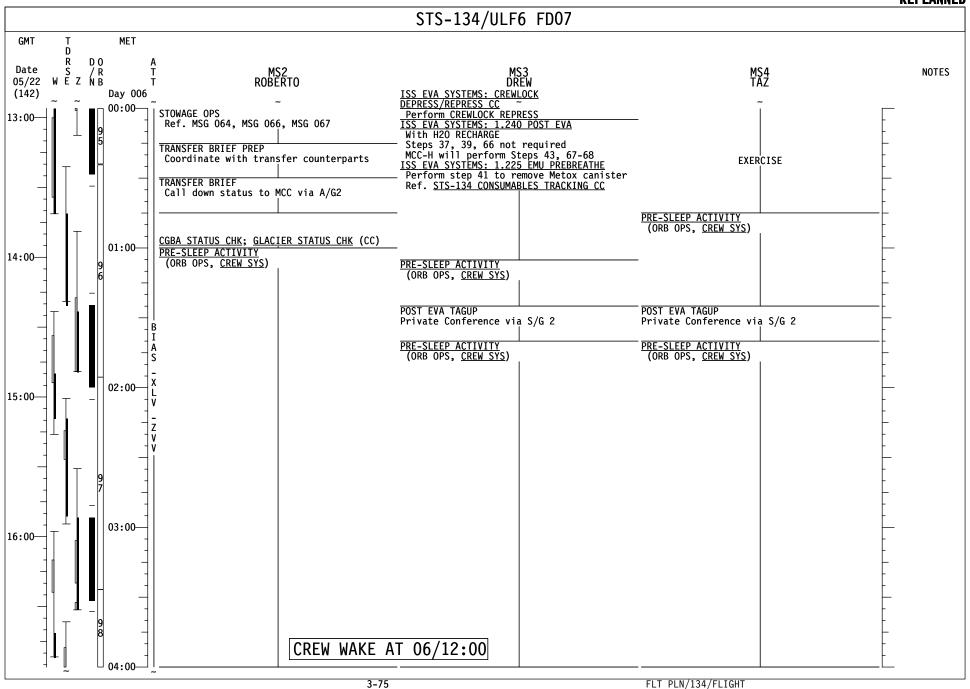












MSG 062 - FD05 MISSION SUMMARY

1	Good Morning Endeavour!!!!
3	Great job with the focused inspection yesterday!
4 5	Endeavour has been cleared for entry!!
6 7	Looking forward to another great EVA today!
8 9 10 11 12	AMS continues to operate on ISS nominally. Yesterday, AMS received ~50 million events and collected 90 Gb of data! This is more data than expected!
13 14	YOUR CURRENT ORBIT IS: 187 X 183 NM
15 16	NOTAMS -
17 18 19 20 21 22 23 24 25 26	EDW - EDW 22L/04R IN USE. EDT 22R/04L EMERGENCY DAY USE ONLY. EDW - LAKEBED RWYS RED. NOR - LAKEBED RWYS GREEN. HNL - RWY 08R/26L CLSD NTU - RWY 05R/23L CLSD. FFA - NOT USABLE. IN CARETAKER STATUS. LAJ - RWY WIDTH REDUCED TO 154' - EAST SIDE OF RWY CLSD. BEN - NOT USABLE. NOT SUPPORTED. IKF - NOT USABLE. NO AGREEMENT
27	NEXT 2 PLS OPPORTUNITIES:
29 30 31	NOR17 ORB 94 - 5/22:12 SKC 7 150/06P08 EDW22 ORB 110 - 6/22:33 SCT150 BKN250 7 240/15P22
32 33	OMS TANK FAIL CAPABILITY:
34 35	NO
36 37	LEAKING OMS PRPLT BURN:
38	L or R OMS LEAK: ALWAYS BURN RETROGRADE
40 41	OMS QUANTITIES(%) (POST Ti)
42 43 44 45 46 47 48 49 50	L OMS OX = 33.23 R OMS OX = 34.28 FU = 33.24 FU = 33.95

END OF PAGE 1 OF 2, MSG 062

52

MSG 062 - FD05 MISSION SUMMARY

1 2	FOR CURRENT QTYS, SUBTRACT INCN'T COUNTER	
3 4	DELTA V AVAILABLE:	
5 6 7	OMS ARCS (TOTAL ABOVE QTY1)	346 FPS 46 FPS
9	TOTAL IN THE AFT	392 FPS
10 11 12 13	ARCS (TOTAL ABOVE QTY2) FRCS (ABOVE QTY 1)	79 FPS 31 FPS
14 15 16 17 18	AFT QTY 1 AFT QTY 2	82 % 44 %
20 21 22 23		
24 25		
262728		
293031		
32 33 34		
35 36		
37 38 39		
40 41		
42 43 44		
45 46		
47 48		
49 50		

END OF PAGE 2 OF 2, MSG 062

51

MSG 063A (27-0654A) - FD07 TRANSFER MESSAGE Page 1 of 5

- 1 Good morning Roberto & Mark!
- 2 Hope you enjoyed your Transfer-Free day! We have a few more of those lined up for you
- throughout the flight, and at the rate that you guys are transferring, we may have more! Today
- 4 you'll start with your Stowage Ops, as well. The Stowage Team is sending up a separate message
- 5 with those details.
- The Transfer List Excel file, FD07_Transfer_List_STS134.xls, is located on the KFX machine in **C:\OCA-up\transfer** (and available via the **PGSC homepage**).

8

For ISS, the Transfer List Excel file, FD07_Transfer_List_STS134.xls, is located in **K:\OCA-up\transfer**.

9 10 11

FD07 Choreography

None Identified

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212223

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Transfer Notes

- You are GO to transfer Return Bag 401. There are still some samples to be taken, but those will be added directly to MF14E when they're taken.
- We copied that 3.0 CTB s/n 1016 was temp stowed on the Middeck for the CWC fills. As you probably know, the Silver Biocide kits that you're using for those fills came over in that CTB. Those Silver Biocide Kits should return on the Shuttle in Bag H per Item 736. Would you like us to call Item 736 complete since they're on the Shuttle? Or leave it unchecked as a reminder to you to confirm that you've taken them out of the CTB and stowed them in Bag H?
- On FD05, Cady took a Microbial Sample and showed a very small amount of growth. Typically, that small amount of growth does not require returning the sample, so Cady threw the sample out. Since then, the ground teams have decided that they do want the sample returned. Cady has been notified and she mentioned she'd try to find the sample. If she finds it before she leaves, we'd like to return the sample and you'll see this on the Transfer List in the next few days. Please let us know if she does not find the sample prior to her departure.
- Also, please note that some of your crew members will be sleeping while you're working on transfer ops – so keep that in mind when working near sleep stations.

313233

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Change Pages

- Please incorporate changes as follows:
- 35 In the Transfer List RETURN tab
 - Replace pages 1 & 9
- 37 Add page 10

38 39

40 41

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END OF PAGE 1 OF 5, MSG 063A (27-0654A)

MSG 063A (27-0654A) - FD07 TRANSFER MESSAGE Page 2 of 5

_	
2	Change Details
3	401: Constraint removed
4	401.1: Added the COL ITCS sample that will be collected on FD14.
5	906: Adding a 0.5 CTB containing 4 EVA Gloves with a T61p Battery inside. Battery needs to
6	be bagged and bubble-wrapped prior to transfer.
7	907, 907.1, 907.2, 907.3: You will need to retrieve an empty 0.5 CTB from ISS and fill it with
8	some EVA items that have now been approved for return (items 907.1, 907.2, and 907.3)
9	908 and 909: Adding some MSG Tapes that have recently been approved for return. These
10	tapes should go in the 1.0 CTB already stowed in MF71C.
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END OF PAGE 2 OF 5, MSG 063A (27-0654A)

27-0638 (MSG 064) - ULF6 Stowage Choreography Page 1 of 3

Box and Roberto,

Welcome to your first day of ISS Stowage Ops! Today you have approximately 7 hours of Stowage Ops between the two of you. Our recommendation is for Box to start with ULF6 Unpack. Later, when you're paired up, we would like you to work on ATV Cargo Ops. In the ATV, you'll start with adapter plate installations and the Temporary Stowage Rack (TSR) deploy, which are tasks that require two crew members.

For ATV ops – you're going to start by installing four adapter plates. Paolo should have shown you which tools to use, or have them already pregathered for you. The adapter plates act as pairs – the straps on the top and bottom on the plates have either male or female clasps, so you'll need to find the matching plates in order to effectively mount the M bags. We've specifically picked out plates for you to use on the S2 rack. Since you're only adding one plate to the P2 rack, you'll have to take a look to see which plate is already there and find a match.

Also, please note that some of your crew members will be sleeping while you're working on stowage ops – so keep that in mind when working near sleep stations. Don't hesitate to call down with any questions!

Good luck!!

■ ATV2/ULF6 ISO Team: Kelly, Mike, Jaclyn, Misty, Eryx, & Nikhail

Choreography:

Box – ULF6 Unpack (7 hours but can be done one CTB at a time)

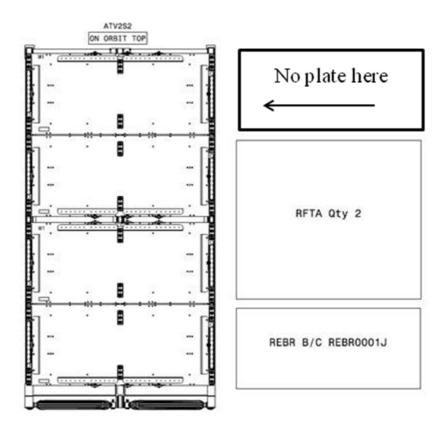
Execute per Transfer List Book, Unpack Tab.

Box and Roberto – ATV Cargo Ops: Reference 27-0290D: ATV2 Cargo List

- 1. Install final plate on ATV2P2
 - a. Take close out photos of the ATV2P2_A1 and ATV2P2_A2.
 - b. Mount plates per US SODF; ATV Cargo Ops: Prep for Undock; 3.200 ATV RACK ADAPTER PLATE INSTALLATION.
 - i. Plates are stowed in ATV2O1_A0 and E0 locations
 - c. Please don't use plate with barcode "PLATE023". This is specifically labeled for the ReBR payload.
- 2. Plate over ATV2S2
 - a. We understand that this rack may not be 100% full. Please take a picture of each rack sector prior to plating.
 - b. Mount 3 plates on ATV2S2 per US SODF; ATV Cargo Ops: Prep for Undock; 3.200 ATV RACK ADAPTER PLATE INSTALLATION.
 - i. Plates are stowed in ATV2O1_A0 and E0 locations

Page 1 of 3, 27-0638 (MSG 064)

- ii. The ATV2S2_A1/A2 positions don't need to be blocked. Do not install a plate in the 1st plate position.
- iii. PLATE021 and PLATE022 are a pair. These should be mounted in the 2nd and 3rd plate positions. The plate with barcode "PLATE023" should be mounted closest to the deck. This is specifically labeled for the ReBR payload. After everything is mounted. ATV2S2 should look like this:



- 3. Mount RFTA bags on ATV2P2
 - a. Trash items 712-712.2, 735-735.2
 - b. The RFTA foam cap from 712.2 will need to be removed and stowed back in the PMM before you xfer the RFTA to ATV for disposal.
- 4. Mount RFTA bag on ATV2S2
 - a. Mount the M-01 bag on the center 2nd and 3rd adapter plates. This bag is significantly heavier than any other trash item.
- 5. Deploy 2nd TSR
 - a. Use US SODF; ATV Cargo Ops: Initial Setup; 1.200 TEMPORARY STOWAGE RACK (TSR) INSTALLATION.
 - b. Unpack Items 8-8.3, related trash item 309
 - c. Unpack item 6 the empty 1.0 CTB can be transferred to the NOD3A2 CTB farm if it is still in ATV.
- 6. Trash ULF6 foam

Page 2 of 3, 27-0638 (MSG 064)

a. Trash items 203 – 206. If you have any difficulty with the stowage locations given please let us know.

Below are additional tasks that can be started if time remains:

- 1. Relocate CTBs w/CWC-ls from JLP to PMM Standoffs (7 hours total but can be done in 1 hour increments)
 - a. Two crew working simo is recommended for this procedure. This activity involves rotating RSPs and/or removing cargo from rack bays to access the standoff areas.
 - b. Execute per message 27-0487A: JLP CWC-I Relocation Rev A
- 2. Relocate JAXA Cargo to JEM (1 hour)
 - a. This activity involves relocating a few JAXA items from US stwg locations to permanent homes within the JPM and JLP. It is recommended that you perform this after #1 above since one of the JLP locations must be cleared of CWC-Is prior to the JAXA item being restowed.
 - b. Execute per 27-0530: JAXA Hardware Relocate

27-0652 (MSG 065) - STS-134/ULF6 FD7 EVA DELTAS Page 1 of 1

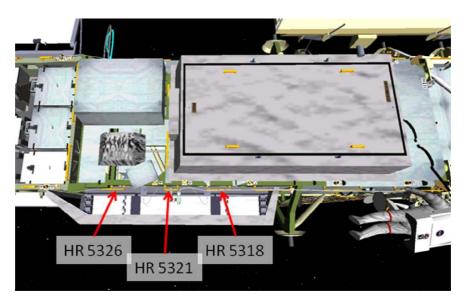
Taz, the following are a few pen & inks for EVA2 (EVA, TIMELINES):

- 1) A Safety tether snag on the SARJ hardware was seen on EVA 1. To prevent future snags, please add a note to Page FS 7-69, EV2 step 19 and Page FS 7-70, EV1 step 4, to route Safety Tether inbd of the SARJ when translating to the aft side to clear the SARJ covers.
- After reviewing flight video, the vent tools are in the expected config. Please disregard the updates that were uplinked in FD6 Execute Package to EV 1 step 13, FS 7-73.

WAS (and IS):

- 1. Retrieve and attach MUT EE to P6 HR 5321 (straight on HR)
 - □ √Locked
 - □ Clock L-bracket so it is parallel to HR
- 3) Page FS 7-75, EV1 step 31, if the vent tool lines need more slack due to the kink, Drew is okay to relocate the MUT EE inbd to HR 5318.
- 4) Page FS 7-76, EV1 step 7, if the vent tool lines need more slack for the EAS Jumpers, Drew is okay to relocate the MUT EE outbd to HR 5326 if the vent lines cannot be routed diagonally to reach.

Also, Drew is free to straighten the vent tool extension near the kink if needed. We just do not want him to bend it back on itself anymore.



Page 1 of 1, 27-0652 (MSG 065)

27-0290D (MSG 066D) - ATV2 Cargo List

Please record your updates either by crew notes or by calling down any updates to MCC-H. When calling down updates, please reference the "Item #." If you have any questions, do not hesitate to ask.

Please remove all items from ziplock bags, foam, bubble wrap, and other packing materials except where noted; place all temporary packing materials in Common Trash. Place any empty ziplock bags in the Ziplock Pantry at NOD2O1. Any ziplocks or bubble wrap that you feel is excess and not needed you can dispose in common trash. There are foam blocks behind bags in all of the rack sectors. Please leave those in place.

		Item #	Item Name	Qty	S/N	Barcode	Launch Stowage	Temporary	Recommended Final	Constraints/**Comments/PROCEDURE
Change Flag	☑		[LABEL]				Location	Stowage Location	Location	S
D2 Rack										
		6	1.0 CTB [Deck TSR Bag] [SEG33111838-307]	1	1475	CTB00226E	ATV2D2_C1		NOD3A2	
х		8	1.0 CTB [Overhead TSR Bag]	1	1467	CTB00219E	ATV2D2_C2		NOD3A2	
х		8.1	Ballast Plate	2	-	-	ATV2D2_C2 (in 1.0 CTB)		See Trash Tab	**This is Trash Item # 309.
х		8.2	Temporary Stowage Rack [TSR]	1	-	2TSR0002E			ATV2D1_Deployed ATV2O1_Deployed	
х		8.3	Ziplock: Seat Track Studs	1	-	ATV00069E				** Ziplock contains 9 Seat Track Studs
P2 Rack	Front		<u> </u>				<u> </u>			
		41	M-01 Bag [Multifiltration ORU - 2]	1	1027	003006J	ATV2P2_Rack Front	PMM Endcone	ATV2S2_A0	**M-01 Bag will be used to contain 2 RFTAs for disposal on ATV2. **This is trash item #959
S1 Rack										
		56.1	Foam	All	•	-	ATV2S1_A2 (in 1.0 CTB)		ATV2S1_A2	**This is Trash Item # 800.
	☑	56.2	ИПК-1M [GAS MASK]	2	005 006	ATV00059E ATV00060E			ATV2_Deployed	
		56.3	Add On Return Grid [AORG-001]	4	01 02 03 04	00001402E 00001403E 00001404E 00001405E		ATV2_Deployed	COL1D4_E2	
	Ø	56.4	CBEF Humidifier Refill Kit [T6-24289]	2	003 004	CBEHR013N CBEHR014N			JPM103_C2 (JEM Bag 6: P/N 80AS56740-119, S/N 001, B/C JBAG0006N)	
		60.2	21.5" Handrail [G11F5200-2]	9	-	-	ATV2S1_B2 (in 2.0 CTB)	Deploy in ATV as needed	ISS_Deployed	**Use in ATV. Prior to undock, these will be removed and deployed in USOS.
S2 Rack	Front									
		71	M-01 Bag [RFTA #2] [SEG33111805-301]	1	1007	004378J	ATV2S2_Rack Front	ATV2D1	ATV2S2_A0	**This is Trash Item # 735 946.
	Ø	71.1	Foam	9	-	-	ATV2S2_Rack Front (in M-01 Bag)		See Trash Tab	KEEP foam in M-01 Bag 1007. **This is Trash Item # 946.1.

Unpack List

27-0487AÁÇT ÙÕÆÎ Ï ŒĐËJLP CWC-I Relocation Page 1 of 6

Increment 27: JLP CWC-I Relocation

Goal: To relocate CWC-Is packed in CTBs from JLP to PMM standoffs. Some CWC-Is that are not currently packed in CTBs will

remain on the rack fronts in JLP until another activity.

Duration: 7 hours, but can be done in parts

Procedure:

1. Relocate items per Table A.

- a. The PF1 standoff has been completed, but 7 empty standoffs remain. See photos below Table A for how to orientate the CTBs in the standoffs.
- b. It may be necessary to remove a couple CWC-Is from the 3.0 CTBs to manipulate the CTBs into the standoff area due to the airduct. If possible replace the CWC-Is inside the CTB. If not possible, please try to stow the CWC-Is within the standoff outside the 3.0 CTBs.
 - NOTE: There have been a few leaks recently. In order to mitigate pressure on the fittings and seals, please handle the CWC-Is and CTBs containing CWC-Is with care.
- c. Report your results to MCC-H and we will update IMS for you.

Notes on accessing the standoffs:

- 1) To access the PF4 standoff, remove enough stowage in F3 to access the PF3 standoff. Access the PF4 standoff through the PF3 standoff.
- 2) To access the PF3 standoff, go through the F3 rack bay.
- 3) To access the PF2 standoff, either go through the PF3 standoff, or rotate the F2 RSP.
- 4) To access the PF1 standoff, rotate the F1 RSP.
- 5) To access the PA4 standoff, go through the A4 rack bay.
- 6) To access the PA3 standoff, go through the P3 rack bay.
- 7) To access the PA2 standoff, either go through the PA3 standoff, or rotate the A2 RSP.
- 8) To access the PA1 standoff, go through the A1 rack bay.

Table A: CTBs with CWC-Is

1	Ref	Current	Item	S/N	B/C	Qty	New Location	Notes
	#	Location						
	1	PMM1F4 Rack Front	2.0 CTB	1066	004200J	1	PMM1PA1 Standoff	Please confirm the S/Ns of the CWC-Is in this CTB. IMS shows this as empty after the inventory from the last activity, but we think there are up to 4 CWC-Is in this CTB.
	2	JLP1F2 Rack Front	2.0 CTB	1070 1100	004204J 010688J	2		
	3	JLP1F2 Rack Front	3.0 CTB	1116	006773J	1	PMM1PA2 Standoff	
	4	JLP1S1 Behind HDP	3.0 CTB	1089	006746J	1		
	5	PMM1F4 Rack Front	3.0 CTB	1121	006778J	1	PMM1PA3 Standoff	
	6	JLP1S1 Behind HDP	3.0 CTB	1107	006764J	1		
	7	JLP1F2 Behind HDP	3.0 CTB	1091 1118	006748J 006775J	2	PMM1PA4 Standoff	
	8	JLP1F2 Behind HDP	3.0 CTB	1034 1043	004219J 004228J	2	PMM1PF2 Standoff	
	9	JLP1F2 Behind HDP	3.0 CTB	1048 1085	004233J 006742J	2	PMM1PF3 Standoff	

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-/	Ref	Current	Item	S/N	B/C	Qty	New Location	Notes
•	#	Location						
	10	PMM1F4	3.0 CTB	1073	004258J	1	PMM1PF4	Only contains 4 CWC-Is.
		Rack Front					Standoff	
	11	JLP1S1	2.0 CTB	1098	010686J	2	PMM1PF4	
		Behind HDP		1111	010699J		Standoff	

Photo 1 – 3.0 CTB on end in the standoff (photo from Bldg 9 – note no airduct)



Photo 2 – Two 3.0 CTBs stowed in a standoff (photo from Bldg 9 – note no airduct)



Photo 3 – On-orbit photo from first completed standoff



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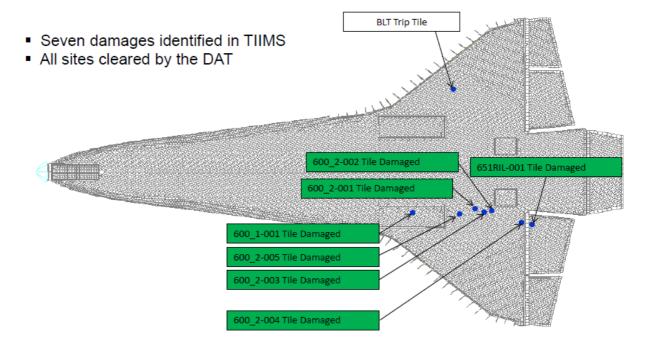
STS-134/ULF6 FD06 - MMT Summary

The MMT met today to review the orbiter systems and mission progress.

Endeavour continues to perform exceptionally well.

Thanks to the extras views of damage site 600_2-001, the DAT team was able to accurately characterize the cavity dimensions allowing them to remove the assumptions/unknowns that were used in the original analysis. With that, that DAT team was able to clear all TPS "Areas of Interest" and Endeavour is cleared for entry at this time. The analysis showed positive margins for all the damage tile sites even in a dispersed Entry case.

Good Luck on EVA 2.



MSG 069 FD07 Crew Choice Downlink Opportunities

1 Post-Sleep Morning of FD7

TDRS	AOS	LOS	Delta (min)	Notes
W-TDW	5/12:40	5/12:58	18	
E-TDE	5/13:39	5/13:51	12	
W-TDW	5/14:15	5/14:48	33	
E-TDE	5/15:17	5/15:24	7	
W-TDW	5/15:51	5/16:22	31	After Post-Sleep

3 Pre-Sleep Evening of FD7

TDRS	AOS	LOS	Delta (min)	Notes
E-TDE	6/02:21	6/02:33	12	

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